

Claims

- [c1] An isolated nucleic acid having at least 80% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 90 (SEQ ID NO:90);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 90 (SEQ ID NO:90), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 90 (SEQ ID NO:90);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 90 (SEQ ID NO:90), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203236.

- [c2] The isolated nucleic acid of Claim 1 having at least 85% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 90 (SEQ ID NO:90);
 - (b) a nucleic acid sequence encoding the polypeptide shown in Figure 90 (SEQ ID NO:90), lacking its associated signal peptide;
 - (c) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 90 (SEQ ID NO:90);
 - (d) a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure 90 (SEQ ID NO:90), lacking its associated signal peptide;
 - (e) the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);
 - (f) the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or
 - (g) the full-length coding sequence of the cDNA deposited under ATCC accession number 203236.

- [c3] The isolated nucleic acid of Claim 1 having at least 90% nucleic acid sequence identity to:
- (a) a nucleic acid sequence encoding the polypeptide shown in Figure 90 (SEQ ID

NO:90);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number203236.

[c4]

The isolated nucleic acid of Claim 1 having at least 95% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number203236.

[c5]

The isolated nucleic acid of Claim 1 having at least 99% nucleic acid sequence identity to:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID

NO:90), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number203236.

[c6]

An isolated nucleic acid comprising:

(a)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90);

(b)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90);

(d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;

(e)the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);

(f)the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or

(g)the full-length coding sequence of the cDNA deposited under ATCC accession number203236.

[c7]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90).

[c8]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide.

[c9]

The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID

NO:90).

- [c10] The isolated nucleic acid of Claim 6 comprising a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide.
- [c11] The isolated nucleic acid of Claim 6 comprising the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89).
- [c12] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89).
- [c13] The isolated nucleic acid of Claim 6 comprising the full-length coding sequence of the cDNA deposited under ATCC accession number203236.
- [c14] An isolated nucleic acid that hybridizes to:
- (a)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90);
 - (b)a nucleic acid sequence encoding the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;
 - (c)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90);
 - (d)a nucleic acid sequence encoding the extracellular domain of the polypeptide shown in Figure90 (SEQ ID NO:90), lacking its associated signal peptide;
 - (e)the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89);
 - (f)the full-length coding sequence of the nucleic acid sequence shown in Figure 89 (SEQ ID NO:89); or
 - (g)the full-length coding sequence of the cDNA deposited under ATCC accession number203236.
- [c15] The isolated nucleic acid of Claim 14, wherein said hybridization occurs under stringent conditions.
- [c16] The isolated nucleic acid of Claim 14 which is at least 10 nucleotides in length.
- [c17] A vector comprising the nucleic acid of Claim 1.

- [c18] The vector of Claim 17, wherein said nucleic acid is operably linked to control sequences recognized by a host cell transformed with the vector.
- [c19] A host cell comprising the vector of Claim 17.
- [c20] The host cell of Claim 19, wherein said cell is a CHO cell, an *E. coli* or a yeast cell.

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